

In the Claims

1. (currently amended) A circuit for regulating the output power of a power amplifier during a switching transient comprising:
a regulator for providing regulated power to the power amplifier;
a detector circuit coupled to the regulator and to a control signal that is generated to control the output power of the power amplifier, wherein the detector circuit detects switching transients of the power amplifier; and
a bias control circuit coupled to the regulator for applying a bias signal to the regulator to decrease the settling time of the regulator during a the detected switching ~~transient~~ transients, wherein the regulator continues to provide regulated power to the power amplifier while the bias signal is applied.
2. (previously presented) The circuit of claim 1, further comprising a timer circuit coupled to the bias control circuit and the detector circuit for controlling when the bias signal is applied to the regulator.

Claims 3-4 (canceled)

5. (previously presented) The circuit of claim 1, wherein the detector detects when a voltage level of the control signal drops.

Claim 6 (canceled)

7. (previously presented) The circuit of claim 1, wherein the bias control circuit decreases the settling time of the regulator by applying a bias current to the regulator.

8. (previously presented) The circuit of claim 1, wherein the bias control circuit decreases the settling time of the regulator by applying a bias voltage to the regulator.

Claim 9 (canceled)

10. (previously presented) The circuit of claim 1, further comprising a switching device coupled to the detector, wherein the bias control circuit decreases the settling time of the regulator by turning on the switching device in response to a detected condition.

Claim 11 (canceled)

12. (currently amended) A circuit for regulating the output power of a power amplifier during a switching transient comprising:
a regulator for providing regulated power to the power amplifier;
a detector for detecting a condition relating to the operation of the regulator; and
control circuitry coupled to the regulator for applying a bias signal to the regulator to decrease the settling time of the regulator in response to a the detected condition, wherein the regulator continues to provide regulated power to the power amplifier while the condition is detected.

13. (currently amended) The circuit of claim 12, further comprising a timer coupled to the detector and the control circuitry for controlling the duration that the control circuitry controls the output power of the regulator in response to a the detected condition.

14. (currently amended) The circuit of claim 13, further comprising delay circuitry for delaying when the control circuitry controls the output power of the regulator in response to a the detected condition.

15. (original) The circuit of claim 12, wherein the output level of the regulator is controlled by a power control signal, and wherein the detector detects a condition relating to the power control signal.

16. (original) The circuit of claim 15, wherein the detector detects when the power control signal level drops.

17. (currently amended) The circuit of claim 12, wherein the control circuitry varies the speed at which the regulator is able to respond to a the detected condition.

18. (original) The circuit of claim 17, wherein the regulator is dynamically biased in response to a detected condition.

19. (currently amended) The circuit of claim 12, ~~wherein the regulator uses a technique to control the output power of the power amplifier, and wherein the control circuitry varies the technique by which~~ changes the way the regulator controls the output power of the power amplifier in response to a detected condition.

20. (currently amended) The circuit of claim 19, further comprising switching circuitry for selectively activating two or more regulators in response to a the detected condition.

Claims 21-48 (canceled)

49. (previously presented) The circuit of claim 12, wherein the regulator is a voltage regulator.

50. (previously presented) The circuit of claim 12, wherein the regulator is a current regulator.

51. (previously presented) A method of controlling a regulator for providing regulated power to a power amplifier, the method comprising:

using the regulator to regulate the power provided to the power amplifier;

detecting a condition relating to the operation of the regulator; and

in response to a detected condition, applying a bias signal to the regulator for a limited duration

to decrease the settling time of the regulator while continuing to provide regulated power to the power amplifier.

52. (previously presented) The method of claim 51, wherein the regulator is a voltage regulator.

53. (currently amended) The method of claim 52, wherein the bias signal is a bias voltage.

54. (previously presented) The method of claim 51, wherein the regulator is a current regulator.

55. (currently amended) The method of claim 54, wherein the bias signal is a bias current.